D S R Infratech

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DSR/ QC /012-2020/BBMP/ YPD

Date: 07/02/2022

To,
The Executive engineer,
Yelahanka Project Division,
Bangalore

"PMC CERTIFICATE AND INSPECTION REPORT"

Dear Sir,
Subject: Regarding Inspection Report for the below mentioned work.
Package No-14

1. **Construction of Classrooms and providing basic amenities to Yelahanka Govt. First Grade College in Yelahanka Division**
2. **Construction of Health Building at B Sector in Ward No.04 in Yelahanaka Satelite Town Sub Division**
3. Construction of Samudhaya Bhavana at Best County-III and Providing Gym Equipments at Best County-II in Ward No.03 Yelahanka Sub Division

Item No	Description of Work	Unit	Qty	Remarks
01	Earthwork excavation for foundation of buildings, water supply, sanitary lines and electrical conduits either in pits or in trenches 1.5m and above in width, in hard soil not exceeding 1.5 m. in depth including dressing the bottom and sides of pits and trenches, stacking the exavated soil clear from edges of excavation with lead upto 50 m. after breaking of clods complete as per specifications.and directions of the Engineer in charge.(Page no-6, Item No-2.4 of PWD SR 2018-19.).	Cum	579.30	Work done up to Billed Quantity and the Quality is Satisfactory
03	Providing and laying in position plain cement concrete of mix 1:4:8(M7.5)with OPC cement @ 180kgs, with 40mm and down size graded granite metal coarse aggregates @0.85cum and fine aggregtes @ 0.57cum machine mixed, machine mixed, concrete laid in layers not exceeding 15 cms. thick, well compacted, in foundation including cost of all materials, labour, HOM of machinery, curing complete as per specifications and directions of the Engineer in charge	Cum	58.82	Work done up to Billed Quantity and the Quality is Satisfactory

Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore-92

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06	KSRB 2.3 - Filling available excavated earth (excluding rock) in sides of foundations upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with lead upto 50 m. and lift upto 1.5 m. including cost of all labour complete as per specifications and as per the directions of the Engineer-in-charge of the work . ---- All terms and conditions are as per Tender Document. Specification. No. KBS 2.9 (Page no-7, Item No-2.10 of PWD SR 2018-19.)..	Cum	139.24	Work done up to Billed Quantity and the Quality is Satisfactory
07	Conveying the excavated earth, debries etc., with all lead and lifts including loading and unloading charges etc., complete as per the direction of the Engineer-in-charge. Pg No 136,Item No17.4	Cum	440.07	Work done up to Billed Quantity and the Quality is Satisfactory
08	KSRB 4-6.1 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for foundations, footings, bases of columns for mass concrete including cost of all materials, labour complete as per specificaitons. Specification No. KBS 4.6.2, (Page no-16, Item No-4.28 of PWD SR 2018-19.)..	Cum	67.25	Work done up to Billed Quantity and the Quality is Satisfactory
09	KSRB 4-6.4 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for vertical surface such as walls at any thickness , including attached pilasters, buttresses, plinth and string courses cost of all materials, labour complete as per specificaitons. Specification No. KBS 4.6.2 (Page no-16, Item No-4.31 of PWD SR 2018-19.)..	Sqm	477.71	Work done up to Billed Quantity and the Quality is Satisfactory
10	KSRB 4-6.5 : Providing and removing centering, shuttering, strutting, propping etc. and Removal of form Work for columns, pillars, piers, post and struts, square / rectangular / polygon in plan including cost of all materials, labour complete as per specificaiton. Specification No. KBS 4.6.2, Pg No 16, Item No 4.3	Sqm	94.38	Work done up to Billed Quantity and the Quality is Satisfactory
11	KSRB 4-6.2 : Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for suspended floors, landings, balconies and likes, thickness upto 200 mm including cost of all	Sqm	302.19	Work done up to Billed Quantity and the Quality is Satisfactory

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	materials, labour complete as per specificaitons for heights more than 3.50m from ground level. - 0 to 5 mtrs.Specification No. KBS 4.6.2 page no.16 item no 4.29.2			
12	KSRB 4-6.9 : Providing and removing centering, shuttering, strutting, propping etc., for edges of slabs and breaks in floors including cost of all materials,labour complete as per specifications. Specifications No. KBS 4.6.2, Pg No 17,Item No 4.36	Sqm	18.42	Work done up to Billed Quantity and the Quality is Satisfactory
13	KSRB 4-6.7 :Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for sides and soffits of beams, beam haunchings, cantilever girders, bressumers and lintels not exceeding 1m in depth including cost of all materials, labour complete as per specificaitons.Specification No. KBS 4.6.2, Pg No 17, Item No 4.34	Sqm	215.68	Work done up to Billed Quantity and the Quality is Satisfactory
14	KSRB 4-6.11 :Providing and removing centering, shuttering, strutting, propping etc., and removal of form work for Stairs (excluding landing) except spiral staircase including cost of all materials, labour complete as per specificaiton. Specification No. KBS 4.6.2, Pg No 17, Item No 4.38	Sqm	10.85	Work done up to Billed Quantity and the Quality is Satisfactory
15	KSRB 4-6.10 :Providing and removing centering, shuttering, strutting, propping etc., for chajjas, corbels etc. , including edges including cost of all materials, labour complete as per specificaiton. Specification No. KBS 4.6.2 Pg No 17,Item No 4.37	Sqm	28.89	Work done up to Billed Quantity and the Quality is Satisfactory
17	Providing and laying in position reinforced cementconcrete of design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum andfine aggregtes @ 0.47cum,with superplastisiser @3lts confirming to IS 9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick,vibrated fo all works in Ground Floor level for roof slabs ,staircase, lintels , beams, retaining walls ,return wall, walls (an thivck ness) including attached plasters ,columns, pillars,posts,struts.butters,string or	Cum	2.95	Work done up to Billed Quantity and the Quality is Satisfactory

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	lacing courses ,parapets,coping,bed blocks,anchor blocks ,plain window cills,fillets including cost of all materials, labour,HOM of machinery, curing, complete as per specificationsand directions of the Engineer in charge. No. KBS 4.1, 4.6, (Pg No. 14, Item No. 4.12 of PWD SR 2018-19)			
18	Providing and laying in position reinforced cementconcrete of design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum andfine aggregtes @ 0.47cum,with superplastisiser @3lts confirming to IS 9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick,vibrated fo all works in **First Floor level** for roof slabs ,staircase, lintels , beams, retaining walls ,return wall, walls (an thivck ness) including attached plasters ,columns, pillars, posts, struts. butters, string or lacing courses ,parapets,coping,bed blocks,anchor blocks ,plain window cills,fillets including cost of all materials, labour,HOM of machinery, curing, complete as per specificationsand directions of the Engineer in charge. (Pg No. 14, Item No. 4.12 of PWD SR 2018-19) (First Floor)	Cum	2.78	Work done up to Billed Quantity and the Quality is Satisfactory
19	Providing and laying in position reinforced cementconcrete of design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum andfine aggregtes @ 0.47cum,with superplastisiser @3lts confirming to IS 9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick,vibrated fo all works in Second Floor level for roof slabs ,staircase, lintels , beams, retaining walls ,return wall, walls (an thivck ness) including attached plasters ,columns, pillars, posts, struts. butters, string or lacing courses , parapets, coping, bed blocks, anchor blocks, plain window cills,fillets including cost of all materials, labour,HOM of machinery, curing, complete as per specifications.and directions of the Engineer in charge. (Second Floor)	Cum	16.51	Work done up to Billed Quantity and the Quality is Satisfactory

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20	Providing and laying in position reinforced cementconcrete of design mix M25 with OPC cement @ 340kgs, with 20mm and down size graded granite metal coarse aggregates @0.70cum andfine aggregtes @ 0.47cum,with superplastisiser @3lts confirming to IS 9103-1999 Reaffirmed-2008, machine mixed, concrete laid in layers not exceeding 15 cms thick,vibrated fo all works in Third Floor level for roof slabs ,staircase, lintels , beams, retaining walls ,return wall, walls (an thivck ness) including attached plasters ,columns, pillars, posts, struts. butters, string or lacing courses , parapets, coping, bed blocks, anchor blocks, plain window cills,fillets including cost of all materials, labour,HOM of machinery, curing, complete as per specifications.and directions of the Engineer in charge. (Third Floor)	Cum	13.01	Work done up to Billed Quantity and the Quality is Satisfactory
23	Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 27.20kgs, with 12mm and down size graded granite metal coarse aggregates @0.5865cum and fine aggregtes @ 0.391cum, with superplastisiser @0.225lts, machine mixed, well compacted for plain chajja of 8.5 cms. average thickness, upto First Floor level, including cost of all materials, labour, HOM of machinery, finishing, curing, complete as per specifications.and directions of the Engineer in charge.	Cum	7.83	Work done up to Billed Quantity and the Quality is Satisfactory
24	Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 27.20kgs, with 12mm and down size graded granite metal coarse aggregates @0.5865cum and fine aggregtes @ 0.391cum, with superplastisiser @0.225lts, machine mixed, well compacted for plain chajja of 8.5 cms. average thickness, upto First Floor level, including cost of all materials, labour, HOM of machinery, finishing, curing, complete as per specifications.and directions of the Engineer in charge.(First Floor)	Cum	10.26	Work done up to Billed Quantity and the Quality is Satisfactory

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25	Providing and laying in position reinforced cement concrete of design mix M20 with OPC cement @ 27.20kgs, with 12mm and down size graded granite metal coarse aggregates @0.5865cum and fine aggregtes @ 0.391cum, with superplastisiser @0.225lts, machine mixed, well compacted for plain chajja of 8.5 cms. average thickness, upto First Floor level, including cost of all materials, labour, HOM of machinery, finishing, curing, complete as per specifications.and directions of the Engineer in charge.(Second Floor)	Cum	10.80	Work done up to Billed Quantity and the Quality is Satisfactory
28	KSRB 4.9.2 : Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 (Pg No.18 Item No.4.46.2 PWD SR 2018-19) (Ground Floor)	tonne	9.73	Work done up to Billed Quantity and the Quality is Satisfactory
29	KSRB 4.9.2 : Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. (First Floor)	Tonne	0.87	Work done up to Billed Quantity and the Quality is Satisfactory
30	KSRB 4.9.2 : Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 (Pg No.18 Item No.4.46.2 PWD SR 2018-19) (Second	Tonne	7.48	Work done up to Billed Quantity and the Quality is Satisfactory

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	Floor)			
31	KSRB 4.9.2 : Providing T.M.T bars Fe 500 steel reinforcement for R.C.C work including straightening, cutting, bending, hooking, placing in position, lapping and / or welding wherever required, tying with binding wire and anchoring to the adjoining members wherever necessary complete as per design (laps, hooks and wastage shall not be measured and paid) cost of materials, labour, HOM of machinery complete as per specifications. Specification No. KBS 4.6.3 (Pg No.18 Item No.4.46.2 PWD SR 2018-19) (Third Floor)	Tonne	2.47	Work done up to Billed Quantity and the Quality is Satisfactory
33	Providing and constructing load bearing wall with solid concrete blocks of size 400X200X200mm having block density not less than 1800kg/m3 having a minimum average compressive strength 5.00N/mm2 confirming to IS 2185 (part 1) :2005 and constructed with cement mortar 1:4,as per IS 2572:2005 including cost of materials, labour charges, scaffolding, curing, hire charges of machinaries etc., complete as per specifications.and directions of the Engineer in charge.	Sqm	33.30	Work done up to Billed Quantity and the Quality is Satisfactory
38	Providing and constructing non-load bearing wall with solid concrete blocks of size 400X100X200 having a block density not less than 1800kg/m3 having a minimum average compressive strength of 4.00 N/mm2 conforming to I.S : 2185 (Part 1) : 2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials, labour charges, scaffolding, curing, hire chargesof machineries etc., complete as per specifications.and directions of the Engineer in charge.	Sqm	49.95	Work done up to Billed Quantity and the Quality is Satisfactory

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39	Providing and constructing non-load bearing wall with solid concrete blocks of size 400X100X200 having a block density not less than 1800kg/m3 having a minimum average compressive strength of 4.00 N/mm2 conforming to I.S : 2185 (Part 1) : 2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials, labour charges, scaffolding, curing, hire chargesof machineries etc., complete as per specifications.and directions of the Engineer in charge. (First Floor)	Sqm	51.26	Work done up to Billed Quantity and the Quality is Satisfactory
40	Providing and constructing non-load bearing wall with solid concrete blocks of size 400X100X200 having a block density not less than 1800kg/m3 having a minimum average compressive strength of 4.00 N/mm2 conforming to I.S : 2185 (Part 1) : 2005 and constructed with CM 1:4, as per IS 2572:2005 including cost of all materials, labour charges, scaffolding, curing, hire chargesof machineries etc., complete as per specifications.and directions of the Engineer in charge. (Second Floor)	Sqm	60.51	Work done up to Billed Quantity and the Quality is Satisfactory
43	Providing 18mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners. wherever required smooth rendering, Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.and directions of the Engineer in charge.	Sqm	239.34	Work done up to Billed Quantity and the Quality is Satisfactory
44	Providing 18mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners. wherever required smooth rendering, Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.and directions of the Engineer in charge. (First Floor)	Sqm	220.84	Work done up to Billed Quantity and the Quality is Satisfactory

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45	Providing 18mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners. wherever required smooth rendering, Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.and directions of the Engineer in charge. (Second Floor)	Sqm	222.25	Work done up to Billed Quantity and the Quality is Satisfactory
46	Providing 18mm thick cement plaster in single coat with cement mortar 1:4, to brick masonry including rounding off corners. wherever required smooth rendering, Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.and directions of the Engineer in charge. (Third Floor)	Sqm	224.07	Work done up to Billed Quantity and the Quality is Satisfactory
48	Providing 12mm thick cement plaster in single coat with cement mortar 1:4 , to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and directions of the Engineer in charge.	Sqm	764.64	Work done up to Billed Quantity and the Quality is Satisfactory
49	Providing 12mm thick cement plaster in single coat with cement mortar 1:4 , to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and directions of the Engineer in charge. (First Floor)	Sqm	628.40	Work done up to Billed Quantity and the Quality is Satisfactory
50	Providing 12mm thick cement plaster in single coat with cement mortar 1:4 , to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and directions of the Engineer in charge. (Second Floor)	Sqm	564.81	Work done up to Billed Quantity and the Quality is Satisfactory

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51	Providing 12mm thick cement plaster in single coat with cement mortar 1:4 , to brick masonry including rounding off corners wherever required smooth rendering, : Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications and directions of the Engineer in charge. (Third Floor)	Sqm	97.58	Work done up to Billed Quantity and the Quality is Satisfactory
53	Providing 12mm thick cement plaster in single coat with cement mortar 1:4 , to ceiling including rounding off corners wherever required smooth rendering, : including Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.and directions of the Engineer in charge.	Sqm	202.10	Work done up to Billed Quantity and the Quality is Satisfactory
54	Providing 12mm thick cement plaster in single coat with cement mortar 1:4 , to ceiling including rounding off corners wherever required smooth rendering, : including Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.and directions of the Engineer in charge. (First Floor)	Sqm	198.62	Work done up to Billed Quantity and the Quality is Satisfactory
55	Providing 12mm thick cement plaster in single coat with cement mortar 1:4 , to ceiling including rounding off corners wherever required smooth rendering, : including Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications.and directions of the Engineer in charge. (Second Floor)	Sqm	143.44	Work done up to Billed Quantity and the Quality is Satisfactory
56	Providing 12mm thick cement plaster in single coat with cement mortar 1:4 , to ceiling including rounding off corners wherever required smooth rendering, : including Providing and removing scaffolding, including cost of materials, labour, curing complete as per specifications. and	Sqm	22.57	Work done up to Billed Quantity and the Quality is Satisfactory

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	directions of the Engineer in charge. (Third Floor)			
79	Providing and laying M-15 cement concrete flooring, 50 mm thick with metallic concrete hardner topping , under layer of 35mm thick m-15 cement concrete using broken granite metal of 20mm and down size, and top layer 50mm thick of metallic cement hardner consisting of mix 1:2 (1 cement hardner mix : 2 granite metal 10mm nominal size) by volume, with which metallic hardening compound of approved quality mix in the ratio of 4:1 (4 part of cement and 1 part of metallic floor hardening compound of approved quality by wt) , including finishing cost of materials, labour, curing, complete as per specifications and directions of the Engineer in charge.	Sqm	51.61	Work done up to Billed Quantity and the Quality is Satisfactory
84	Providing skirting, dado, rises of steps with colour glazed tiles 30X60 cms 6mm thick with border of size 30 x 10 cms on 10mm thick cement plaster 1:3 and jointed with white cement slurry over rough plaster surface (excluding cost of rough plastered surface which should be measured and paid separately) using glazed tiles of approved make and size including cost of materials, labour, complete as per specifications. and directions of the Engineer in charge.	Sqm	178.20	Work done up to Billed Quantity and the Quality is Satisfactory
86	Providing and fixing Vetrified glazed tiles of approved make quality & colour of size 600x 600x 10 mm thick fixed on existing flooring withspecial adhesive for flooring ,skirting ad jointed with neat cement slurry mixed with pigment to match shade of tiles, including providing spacers at required interval and removing stains etc complete as per specification and directions of the Engineer in charge.	Sqm	51.61	Work done up to Billed Quantity and the Quality is Satisfactory

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89	Fixing of door frames in an existing opening including embedding frame in floor and walls after cutting masonary for holdfasts for embedding holdfast in cement concrete 1:3:6 of 20mm and downsize granite metal painting two coats of coal tar to sides of frame,making good the damages to walls and floor as required and disposal of the debries with lead upto 50 m. including cost of materials, labour, complete as per specificationsand directions of the Engineer in charge.	Nos	41	Work done up to Billed Quantity and the Quality is Satisfactory
90	Providing Honne wood frames of doors, windows, clerestory windows,ventilators and other frames , wrought, framed or assembled including making plaster groves (excluding cost of cement concrete and side clamps),but including cost of materials, labour, HOM of machineries complete as per specifications. Specification and directions of the Engineer in charge.	Cum	2.57	Work done up to Billed Quantity and the Quality is Satisfactory
104	Providing and fixing in position aluminium windows and ventilators as per approved drawings with sliding shutters using three track window frame of size 92x31.75mm bottom section 1.3mm thick, weight 1.07kg/m; sides and top sections 1.3 mm, thick, weight 0.933 kg/m.shutter frame section comprising top and bottom section of size 40mmx18mm, wall thickness 1.25mm. weight 0.417 kg./m. shutter side outer 40mmx18mm. wall thickness 1.25mm. weight 0.417 kg/m, shutter interlock section 40mmx26.7mm wall thickness 1.1 mm. thick, weight 0.469 kg/m, the shutters mounted on nylon rollers with approved quality of fixtures such as aluminium handles tower bolts etc.; providing and fixing 5.5mm. thick plain glass for shutters fitted with rubber beading all aluminium sections including cutting to required length,	Sqm	3.96	Work done up to Billed Quantity and the Quality is Satisfactory

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	joints mitred subdividing the frame tenonned and rivetted, in the assembled frame, stiffened with end clips for corners, angles etc., and fixed to the walls, lintels, floor beams/cills as the case may be, with necessary steel screws, raul plugs or teak wood gatties including cutting masonry or concrete and making good the original surface using cement mortar - using aluminium section powdered coated to a minimum of 60- 70 microns with exterior durable pure polyester grade powder of approved quality. complete as per specification and directions of the Engineer in charge.			
114	Providing and fixing M.S.Grill over existing compound wall as per, using 16mm x 16mm M.S.Square rod at 150mm c/c spacing and 6mm x 40mm M.S. flats at horizontal and 6mm x12mm M.S. flat for ornamental design and providing shop edge design at the vertex of every vertical rods, including welding, grinding wherever necessary. All the steel surface should be thoroughly cleaned free of rust and painted with anti corrosive paint (shop paint) etc., complete. The work includes cost of all materials, labour charges for all items of work, hire charges for welding, cutting and grinding equipment, and electricity charges, etc., complete as per specification and directions of the Engineer in charge. . (First Floor)	Sqm	44.28	Work done up to Billed Quantity and the Quality is Satisfactory
115	Providing and fixing M.S.Grill over existing compound wall as per, using 16mm x 16mm M.S.Square rod at 150mm c/c spacing and 6mm x 40mm M.S. flats at horizontal and 6mm x12mm M.S. flat for ornamental design and providing shop edge design at the vertex of every vertical rods, including welding, grinding wherever necessary. All the steel surface should be thoroughly cleaned free of rust and painted with	Sqm	27.00	Work done up to Billed Quantity and the Quality is Satisfactory

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	anti corrosive paint (shop paint) etc., complete. The work includes cost of all materials, labour charges for all items of work, hire charges for welding, cutting and grinding equipment, and electricity charges, etc., complete as per specification and directions of the Engineer in charge. . (Second Floor)			
135	Providing laying plain/ reinforced cement concrete for side Drains Using M20 nominal mix Concrete with OPC at 300kgs.With 20mm and Down size granite metal coarse aggregate at 0.69cum and fine aggregate at 0.43cum Machne mixed, well compacted for wall and Bottom including centering shuttering,cost of materials,HOM of Machinery,Curing Etc.,Complete Excluding cost of Steel as per morth MORTH specification No. 1500, 1700, 2200. Including Cost of material, Labour, HOM complete as per Specification-WALL & Bottom thickness 15Cm and directions of the Engineer in charge	Cum	48.11	Work done up to Billed Quantity and the Quality is Satisfactory
136	Providing and Fixing pre cast covering Slab made out of CC 1:2:4 with 10cm thick and Finishing cutting ,including form work,curing,including cost of alll materials, labour,hire charges of machinery,loading,unloading,lead and lift,transportation etc ,copmplete. (Data Rate) complete as per specifications and directions of the Engineer in charge.	Sqm	123.72	Work done up to Billed Quantity and the Quality is Satisfactory
137	Providing and laying heavy duty cobble stones 60mm thick interlock pavers,using cement and course sand for manufacturer of blocks of approved size,shape and colour with a minimum compressive strength of 281 kg per sqm over 50mm thick sand bed(average Thinkness) and compacting with plate vibrator having 3 tons compaction force thereby forcing part of sand underneath to comeup in between joints , final	Sqm	1356.43	Work done up to Billed Quantity and the Quality is Satisfactory

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	compaction of pavers surfaces joint into its final level including cost of materials,labour and HOM complete as per specifications and directions of the Engineer in charge			
138	Providing and filling sand in trenches to required depth including watring ramming with all leads and lift complete as per specifications and directed by the engineer incharge at the site	Cum	72.55	Work done up to Billed Quantity and the Quality is Satisfactory
140	Providing and fixing pre cast solid cement concrete kerb stones made out of CC 1:2:4 with top and bottom width 114 and 165 mm respectively, 400mm high and 450mm in length finished with CM 1:3 plastering and finishing cutting including formwork, curing, including cost of materials, labour charges of machinery, loading and unloading, lead and lift, transportation ete.,complete. As per the direction of Engineer incharge.	Nos	809.11	Work done up to Billed Quantity and the Quality is Satisfactory
147	Providing and fixing white vitreous china clay, water closet europeon type (pedestal type, p-trap) with black solid plastic seat and lid, C.P brass hinges, rubber buffers. 10 litre low level,P.V.C flushing cistern (all are approved make) with fittings, C.I / M.S brackets , 40mm diameter flush pipe fittings and clamps, overflow arrangements with specials and 25mm mosquito proof coupling of approved design,painting of fittings and brackets, cutting and making good the wall and floor wherever required , including cost of materials, labour complete as per specifications and directions of the Engineer in charge.	Each	12.00	Work done up to Billed Quantity and the Quality is Satisfactory
148	Providing and fixing white vitreous china clay,flat back or half stall urinal basin of size 580x380x350mm in the range of two with 7.5 litres P.V.C automatic flushing cistern, C.I / M.S brackets ,standard flush pipe and C.P brass spreaders with brass unions and G.I clamps, C.I	Unit	12.00	Work done up to Billed Quantity and the Quality is Satisfactory

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	trap with outlet grating and other couplings in C.P brass, painting of fittings and brackets, cutting and making good the wall and floor wherever required , including cost of materials, labour complete as per specifications and directions of the Engineer in charge.`			
149	Providing and fixing white vitreous china clay,flat back wash basin size 630x450mm with a pair of 15mm C.P brass pillar taps with C.I / M.S brackets ,32mm C.P brass waste of standard pattern, painting of fittings and brackets, cutting and making good the wall and floor wherever required , including cost of materials, labour complete as per specifications. and directions of the Engineer in charge.	Unit	4.00	Work done up to Billed Quantity and the Quality is Satisfactory
155	Providing and fixing to wall, ceiling and floor unplasticised PVC 6.00 kgs/sqcm working pressure with pipe fittings, wall clips etc., and making good the wall, ceiling and floor for sanitary pipelines including cost of all materials,labour charges, HOM of acquirements and testing complete as per specifications.For Rain water pipe. do- 160mm dia complete as per specifications and directions of the Engineer in charge.	M	227.75	Work done up to Billed Quantity and the Quality is Satisfactory
156	Constructing brick masonry inspection chamber 600x600mm, and 450mm depth, (clear inside dimension) for single pipeline, using table moulded non-modular bricks of class designation 50 in cement mortar 1:5, C.I cover withframe (light duty) 455x610mm internal dimensions, total weight of cover with frame to be not less than 38 kg (weight of cover 23kg and weight of frame 15 kg) R.C.C. top slab with cement concrete M 15 with 20mm and downsize granite metal, foundation concrete M 5 with 40mm and downsize granite metal inside plastering 12mm thick with cement mortar 1:3, finish smooth with	Nos	3.00	Work done up to Billed Quantity and the Quality is Satisfactory

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	a floating coat of cement on walls and bed concrete complete as per standard design including cost of materials, labour charges, curing complete as per specifications. Specification No. KBS 600x600mm and 450mm depth (clear inside dimension) for single pipeline, using table moulded non-modular bricks of class designation 50 in cement mortar 1:5, C.I cover withframe (light duty) 600x600mm. complete as per specifications and directions of the Engineer in charge.			
157	Providing and placing on terrace, polyethylene water storage tanks with manhole lid and suitable locking arrangements, making holes of suitable diameter for inlet, outlet and over flow pipes, including cost of all materials, labour, transport charges, HOM of equipments and testing complete as per specifications. (For 5000 Litre capacity) as per Specification and directions of the Engineer in charge.	Nos	1.00	Work done up to Billed Quantity and the Quality is Satisfactory
158	Providing and fixing in position brass bib cock of approved quality 20mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications and directions of the Engineer in charge.	Nos	17.00	Work done up to Billed Quantity and the Quality is Satisfactory
159	Providing and fixing in position brass stop cock of approved quality 20mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications and directions of the Engineer in charge.	Nos	44.00	Work done up to Billed Quantity and the Quality is Satisfactory
160	Providing and fixing in position brass gate valve with C.I wheel of approved quality (screwed end) 20mm nominal bore including cost of all materials, labour and HOM of equipments with all leads complete as per specifications.and directions of the Engineer in charge.	Nos	6.00	Work done up to Billed Quantity and the Quality is Satisfactory

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.62	Providing and fixing Chorinated Poly Venyl Chloride (CPVC) pipes conforming to IS 15778, having thermal stability for hot and cold water supply including all CPVC plain and brass threaded fittings including fixing the pipe with clamp at 1.00 mtr spacing. This includes jointing of pipes and fittings with one step CPVC solvent cement & the cost of cutting chases & making good the same including testing of joints complete. (Concealed work including cutting chases and good the walls etc.,) (25mm nominal OD pipes) complete as per specifications.and directions of the Engineer in charge.	M	593.72	Work done up to Billed Quantity and the Quality is Satisfactory
165	Concealed Conduit System - Supplying heavy gague PVC conduit pipe 20/25/32 mm dia 2mm thick confirming to IS 2509 with suitable size bends metal/pvc junction boxes, abhesive paste ets, and running before concreting and slab. The conduit should de tied to the reinforcement rods by using binding wires and unused ways of junction boxes and pipe ends should be covered using PVC end enclosures, run with 18SWG GI fisg wire whereever necessary complete as per specifications.and directions of the Engineer in charge.	M	3486.70	Work done up to Billed Quantity and the Quality is Satisfactory
166	Open Conduit System - supplying heavy gauge PVC conduit pipe dia mm thick comfirming to IS 2509 with suitable size bends, junction boxes, adhesive paste etc., and fixing using inverted wood plugs in case of RCC ceiling and RCC wall / stone structure or rawl plugs in case of brick walls and cement plastering the damaged portion using heavy gauge saddles at an interval of 700mm using NF screws. complete as per specifications.and directions of the Engineer in charge.	M	801.00	Work done up to Billed Quantity and the Quality is Satisfactory

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167	Groove cutting : Supplying heavy gauge conduit PVC 25/2mm of s thick heavy with suitable size bend , metal junction boxes, adhesive pastes etc, by groove cutting in a wall and fixing by bracing U or J hooks and cement plastering up to the surface and run with 18SWG GI fish wire run throughout the conduit where ever necessary. 19/20mm dia, 2mm thick complete as per specifications.and directions of the Engineer in charge.	M	400.50	Work done up to Billed Quantity and the Quality is Satisfactory
168	Groove cutting : Supplying heavy gauge conduit PVC 25/2mm of s thick heavy with suitable size bend , metal junction boxes, adhesive pastes etc, by groove cutting in a wall and fixing by bracing U or J hooks and cement plastering up to the surface and run with 18SWG GI fish wire run throughout the conduit where ever necessary. 25mm dia, 2mm thick complete as per specifications.and directions of the Engineer in charge.	M	360.00	Work done up to Billed Quantity and the Quality is Satisfactory
169	Groove cutting : Supplying heavy gauge conduit PVC 25/2mm of s thick heavy with suitable size bend , metal junction boxes, adhesive pastes etc, by groove cutting in a wall and fixing by bracing U or J hooks and cement plastering up to the surface and run with 18SWG GI fish wire run throughout the conduit where ever necessary. 32mm dia, 2mm thick complete as per specifications.and directions of the Engineer in charge.	M	312.00	Work done up to Billed Quantity and the Quality is Satisfactory
170	Supplying and flush modular poweder coated / galvanized metal box suitable for mounting modular switch plates. the box should be firmil flush mounted after due groove cutting in brick /stone/C.C wall 1 - 3 Way complete as per specifications.and directions of the Engineer in charge.	Each	14.00	Work done up to Billed Quantity and the Quality is Satisfactory

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171	Supplying and flush modular poweder coated / galvanized metal box suitable for mounting modular switch plates. the box should be firmil flush mounted after due groove cutting in brick /stone/C.C wall 4 - 5 Way complete as per specifications.and directions of the Engineer in charge.	Each	17.00	Work done up to Billed Quantity and the Quality is Satisfactory
172	Supplying 6A flush type socket and 6 amp flush type SP switch either surface/flush mountinh in existing gang box or in 4mm thik plastic sheet and fixing over a flush mounted wooden box and wiring using necessary capacity wire as required complete as per specifications.and directions of the Engineer in charge.	Nos	157.00	Work done up to Billed Quantity and the Quality is Satisfactory
173	Supplying and mounting 2 Nos, of 2 Way 6amps flush type switches either surface/flush mounted on existing gang box or in 4mm thick plastic sheet and mounted on a flusg mounted wooden box and wiring complete as per specifications and directions of the Engineer in charge.	Nos	9.00	Work done up to Billed Quantity and the Quality is Satisfactory
174	Supply and fixing of bakelite D.P /socket/switch with/ without neon indicator over existing wood board or flush mounting in plastic plates/nitches as per IS 1293 and IS 3854 16Amps Combined switch and socket with indication complete as per specifications.and directions of the Engineer in charge.	Nos	13.00	Work done up to Billed Quantity and the Quality is Satisfactory
176	Wiring for lighting/power circuit using Grade using one of FRLS PVC insulated 1100 volts grade, multistrand copper with low conductor resistance single core wire in open or concealed system of wiring. With specified IS-694: confirming to Latest amendements. 2.5sqmm complete as per specifications.and directions of the Engineer in charge.	M	4475.50	Work done up to Billed Quantity and the Quality is Satisfactory

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177	Wiring for lighting/power circuit using Grade using one of FRLS PVC insulated 1100 volts grade, multistrand copper with low conductor resistance single core wire in open or concealed system of wiring. With specified IS-694: confirming to Latest amendements. 4 sqmm complete as per specifications.and directions of the Engineer in charge.	M	2849.50	Work done up to Billed Quantity and the Quality is Satisfactory
178	Supplying and fixing Metal Fan Box with Round Hook complete as per specifications.and directions of the Engineer in charge.	Each	38.00	Work done up to Billed Quantity and the Quality is Satisfactory
181	Supplying, fixing and wiring earth electrode for grounding conduits , I.C. cutouts and others equipments on the meter board using 40mm dia 2.90mm long buried in a pit.. the pit should be filled with equal proportion of salt and charcoal 150mm all-round the pipe to complete depth. The connection from the pipe to the conduit ect, is to be established through GI wire of size as ISI specification 7.3.3 of IS 732 using 12mm dia bolt, nut, washers and check nuts ect... the pipe shall have 16 through holes of 122mm dia, complete as per specifications.and directions of the Engineer in charge.	Nos	1.00	Work done up to Billed Quantity and the Quality is Satisfactory
182	Supplying and running of GI/ copper strips for grounding connections, using necessary fixing materials as required. 25 x 3mm G.I strip complete as per specifications.and directions of the Engineer in charge.	M	30.00	Work done up to Billed Quantity and the Quality is Satisfactory
183	Suppiying and fixing of slim box Fitting ,made out of CRCA sheet metal body with locking type holder completely wired Excluding Ballast &Flouresent Tube. 1X4' Tube light Fitting complete as per specifications.and directions of the Engineer in charge.	Nos	68.00	Work done up to Billed Quantity and the Quality is Satisfactory

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184	Supplying capacitor type ceiling fan complete with down rod blades shackle, canopies etc, for operation on 230 volts, 50 cycles. single phase AC supply conforming to ISS-374-1979 and with double ball bearing system 48" sweep (1200mm) complete as per specifications.and directions of the Engineer in charge.	Nos	131.00	Work done up to Billed Quantity and the Quality is Satisfactory
192	Supplying and fixing miniature circuit breakers on existing MCB distribution boards using necessary fixing materials and 'C' cure, indicator ON/OFF, energy cross-3 with Short circuit breaking cappacity of 10K and complete wiring as required. Confirming to IEC 60898. (54/6.15)40-63Amps TPN complete as per specifications.and directions of the Engineer in charge.	Nos	1.00	Work done up to Billed Quantity and the Quality is Satisfactory
193	Supplying and fixing Trivector meter suitable for operation LT operation and CT operated meter in polycarbonate body in class 0.5accuracy as per IS 14697 and completely wired complete as per specifications.and directions of the Engineer in charge.	Nos	1.00	Work done up to Billed Quantity and the Quality is Satisfactory
215	Providing and constructing percast concrete solid blocks with compressive strength not less than 35 Kg/sqm with cement mortar 1:4 masonry (quoin, jamb closer blocks) with solid concrete blocks of size 40x20x20cms conforming to I.S : 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications and directions of the Engineer in charge	Sqm	282.37	Work done up to Billed Quantity and the Quality is Satisfactory
216	Providing and constructing percast concrete solid blocks with compressive strength not less than 35 Kg/sqm with cement mortar 1:4 masonry (quoin, jamb closer blocks) with solid concrete blocks of size 40x20x20cms conforming to I.S : 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications and directions of the Engineer	Sqm	296.36	Work done up to Billed Quantity and the Quality is Satisfactory

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	in charge (First Floor)			
217	Providing and constructing percast concrete solid blocks with compressive strength not less than 35 Kg/sqm with cement mortar 1:4 masonry (quoin, jamb closer blocks) with solid concrete blocks of size 40x20x20cms conforming to I.S : 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications and directions of the Engineer in charge (Second Floor)	Sqm	281.54	Work done up to Billed Quantity and the Quality is Satisfactory
218	Providing and constructing percast concrete solid blocks with compressive strength not less than 35 Kg/sqm with cement mortar 1:4 masonry (quoin, jamb closer blocks) with solid concrete blocks of size 40x20x20cms conforming to I.S : 2185/1965 in superstructure including cost of materials, labour charges, scaffolding, curing complete as per specifications and directions of the Engineer in charge (Head room)	Sqm	137.91	Work done up to Billed Quantity and the Quality is Satisfactory
236	Providing and laying integral cement based waterproofing treatment including preparation of surface as required for treatment of roofs, balconies, terraces etc., consisting of following application.(a) Applying and grouting a slurry coat of neat cement using 2.75 kg/ sqm of cement admixed with proprietary water proofing compound conforming to IS:2645 over the RCC slab after cleaning the surface before treatment, (b) Laying cement concrete using broken brick bats 25mm to 100mm size with 50% of cement mortar 1:5 admixed with proprietary water proofing compound conforming IS:2645 over 20mm thick layer of cement mortar 1:5 admixed with proprietary water proofing compound to required slope and treating similarly the adjoining walls upto 300mm height including rounding off junctions of walls and slabs.(c) After two days of proper curing, applying a second coat of cement	Sqm	234.50	Work done up to Billed Quantity and the Quality is Satisfactory

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	lurry admixed with proprietary water proofing compound (d) Finishing the surface with 20mm thick joint less cement mortar of mix 1:4 admixed with proprietary water proofing compound and finally finishing the surface with trowel and neat cement slurry and making of 300x300mm square, (e) The whole terrace so finished shall be flooded with water for a minimum period of two weeks for curing and for final test including cost of materials, labour complete as per specifications and directions of the Engineer in charge			
239	Providing lime rendering for plastering to wall and ceiling, including cost of materials, labour, curing complete as per specifications and directions of the Engineer in charge	Sqm	845.73	Work done up to Billed Quantity and the Quality is Satisfactory
240	Providing lime rendering for plastering to wall and ceiling, including cost of materials, labour, curing complete as per specifications and directions of the Engineer in charge (First Floor)	Sqm	805.16	Work done up to Billed Quantity and the Quality is Satisfactory
241	Providing lime rendering for plastering to wall and ceiling, including cost of materials, labour, curing complete as per specifications and directions of the Engineer in charge (Second Floor)	Sqm	685.45	Work done up to Billed Quantity and the Quality is Satisfactory
242	Providing lime rendering for plastering to wall and ceiling, including cost of materials, labour, curing complete as per specifications and directions of the Engineer in charge (Head Room)	Sqm	52.55	Work done up to Billed Quantity and the Quality is Satisfactory
282	Providing stoneware gully trap 15cms x 10cms of approved quality and make fixing in M15 and plastering with CM 1:3 wherever necessary.(Rate includes cost of all material, fixture and lead) complete as per specifications and directions of the Engineer in charge .	Each	7.00	Work done up to Billed Quantity and the Quality is Satisfactory

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EIRL-01	KSRB 2.5 : Earthwork excavation (in deposited soil) and filling sides of foundation upto plinth in layers not exceeding 20 cms. in depth, compacting each deposited layer by ramming after watering with all lead and lift including cost of all labour complete as per specifications. specification. No. KBS 2.9.9 / 2.9.10.1 / 2.1.1 ---- etc.,complete with all lead & lift and as per the instructions and directions of the Engineer-In-Charge of the work. (Page no-7, Item No-2.12 of PWD SR 2018-19.)..	Cum	762.08	Work done up to Billed Quantity and the Quality is Satisfactory
EIRL-06	KSRRB M400-17. Providing, laying, spreading and compacting cushed stone aggregates of granite / trap / basalt to wet mix macadam specifications including pre mixing the material with water at OMC in mechanical mix plant carriage of mixed materials by tipper to site, laying in uniform layers with paver in sub-base/base course on well prepared surface and compacting with vibratory roller to achieve the desired density complete as per specifications.MORTH Specification No. 406(Page no-155, Item No-20.18 of PWD SR 2018-19.)	Cum	167.44	Work done up to Billed Quantity and the Quality is Satisfactory
EIRL-07	"Supplying of recess mounting non integral type .....LED..... W luminaire comprising of pressure decast/extruded aluminium housing, with spring loaded false ceiling clamps, Power LEDs with CCT 6500 degree K, CRI> 70%. efficacy >100 lumen per watt, 120degree beam spread, life> 25000 burning hours and Compliance to IS 10322/IEC 60598, LM 79 & LM 80. The lamp compartment is enclosed with antiglare opal diffuser which enhances the lighting level. LEDs are driven by HF electronic driver integrated in a separate control gear assembly., with PF >0.95, power loss should 5% of lamp wattage.. short circuit & open circuit protection to be integrated in the circuit, , THD less than 20%, Life as per LM	Nos	16.00	Work done up to Billed Quantity and the Quality is Satisfactory

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	79. The operating input voltage should be between 130 to 275 volts. BIS Approved and tested by NABU CPRI accredited laboratory with 2 years Warranty against any manufacturing defect working under standard electrical condition. LED Modular down light 2'x2' / 1'x4' 42-55 watts (Item No-12.6.3 of PWD SR 2018-19.).			

With respect to the above subject & name of the work, we have inspected the work and the Quantity of above mentioned items of the work was found to be completed satisfactorily for the 5th and Final bill. Work done up to Billed Quantity and the Quality is Satisfactory.

Asst. Executive Engineer
Project Division
Yelahanka Zone
BBMP, Bangalore - 92

With Regards,

D.S.R Infratech, Bangalore

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